

## CLAIMS

## Claim 1

A binder resin for toner that contains  
a polyester resin (E) comprised of at least  
a structural unit having a polyester structure (A),  
a structural unit derived from styrene type resin (B),  
a structural unit derived from epoxy group (C) and  
a structural unit derived from polyisocyanate (D).

## Claim 2

A binder resin for toner that contains a polyester resin (E) as described in Claim 1 that is obtained of 55~99 weight parts of polyester type resin (A2) that has an average molecular weight (Mn) of 1000~50000, a hydroxyl value of 4~100 mgKOH/g and an acid value of 1~40 mgKOH/g, 45~1 weight parts of an epoxy group containing styrene type resin (B2) that has an average molecular weight (Mn) of 1000~30000 g/equivalent, and 0.1~2.5 mole equivalents of polyisocyanate (D2) as isocyanate group for 1 mole equivalent total hydroxyl value of polyester resin (A2).

## Claim 3

A binder resin for toner that is described in Claim 1 wherein the polyester resin (E) has a glass transition temperature of 40~70°C and the value of a tetrahydrofuran soluble component molecular weight dispersion (weight-average molecular weight (Mw) divided by the number-average molecular weight (Mn), that is, Mw/Mn) is 6 or more.

## Claim 4

A binder resin for toner that contains a polyester resin (G) comprised of at least  
a structural unit having a polyester structure (A),  
a structural unit derived from styrene type resin (B),  
a structural unit derived from epoxy group (C),  
a structural unit derived from polyisocyanate (D) and  
a structural unit derived from wax (F).

## Claim 5

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A binder resin for toner that contains a polyester resin (G) as described in Claim 1 that is comprised of 55~99 weight parts of a polyester type resin (A2) with a number-average molecular weight (Mn) of 1000~50000, a hydroxyl value of 4~100 mgKOH/g and an acid value of 1~40 mgKOH/g; 45~1 weight parts of epoxy group containing styrene type resin (B2) with a number-average molecular weight (Mn) of 1000~30000 and an epoxy equivalent of 1000~30000 g/equivalent, 1~13 weight parts of wax (F2) for total 100 weight parts of polyester type resin (A2) and epoxy group containing styrene type resin (B2), and 0.1~2.5 mole equivalents of polyisocyanate (D2) as the isocyanate group for total hydroxyl value 1 mole equivalent of polyester type resin (A2).

Claim 6

An electrophotographic toner for electrostatic developing comprised of a binder resin for toner as described in Claim 4.

Claim 7

An electrophotographic toner for electrostatic developing comprised of a binder resin for toner as described in Claim 1.